Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1 – 10 (cancelled).

Claim 11 (currently amended): A method for cleaning a film-forming apparatus in order to remove a ruthenium-type deposit residing on a constituent member of the film-forming apparatus after said apparatus has been used to form a film comprising ruthenium or solid ruthenium oxide, wherein at least the one surface region of the ruthenium-type deposit comprises solid ruthenium oxide, said method being characterized by:

- converting the aforesaid solid ruthenium oxide into ruthenium metal by bringing the ruthenium-type deposit into contact with a reducing gas that contains a reducing species comprising hydrogen or the hydrogen radical;.
- b) exhausting off the reducing gas from the film-forming apparatus;
- bc) subsequently converting the ruthenium metal into volatile ruthenium oxide by bringing the ruthenium metal into contact with an oxidizing gas that contains an oxidizing species comprising an oxygenated compound; and
- ed) removing this volatile ruthenium oxide from the film-forming apparatus.

Claim 12 (previously presented): The method of claim 11, wherein the reducing gas is composed of inert gas that contains hydrogen at from 1 to 5 volume%.

Claim 13 (previously presented): The method of claim 11, wherein contact between the ruthenium-type deposit and the reducing gas is carried out at 80°C to 800°C.

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Claim 14 (previously presented): The method of claim 11, wherein contact between

the ruthenium-type deposit and the reducing gas is carried out at pressures of 0.01-

1000 torr.

Claim 15 (previously presented): The method of claim 11, wherein the aforesaid

oxidizing gas comprises ozone-containing oxygen gas originating from an ozone

generator.

Claim 16 (previously presented): The method of claim 11, wherein contact between

the ruthenium metal and oxidizing gas is carried out at 0°C to 150°C.

Claim 17 (cancelled)

Claim 18 (currently amended): The method of claim 11, characterized by:

a) monitoring the a concentration of volatile ruthenium oxide in the volatile

ruthenium oxide-containing gas stream flowing out of the film-forming

apparatus; and

b) stopping the oxidizing gas at the point at which the volatile ruthenium

oxide can no longer be detected in the aforesaid gas stream.

Claim 19 (previously presented): The method of claim 11, wherein the volatile

ruthenium oxide-containing gas stream flowing out of the film-forming apparatus is

heated in order to decompose the volatile ruthenium oxide therein.

Claim 20 (previously presented): The method of claim 11, wherein the volatile

ruthenium oxide-containing gas stream flowing out of the film-forming apparatus is

brought into contact with a decomposition catalyst comprising ruthenium metal or a

solid ruthenium compound in order to decompose the volatile ruthenium oxide in said

gas stream.

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